



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.ispto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/945,507	08/30/2001	Leonard Forbes	1303.014US1	2649	
75	90 02/25/2003				
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			EXAMINER .		
P.O. Box 2938			DINH, SON T		
Minneapolis, MN 55402					
			ART UNIT	PAPER NUMBER	
			2824		
			DATE MAIL ED. 02/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)	1			
, j		09/945,507		FORBES ET AL.				
Office Action Summary		Examiner		Art Unit				
		son t dinh		2824	14000			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM								
A SHORTENED STATUTORY PERIOD FOR REPLITS SET TO EXITINE 1 MINE 1								
Status	to the company of the desired and the company of the company							
· / <u>-</u>	onsive to communication(s) filed on	— · is action is non-fir	nal					
				osecution as to t	he merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of C	Claims							
4)⊠ Claim(s) <u>1-80</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
,	(s) is/are allowed.							
•	6) Claim(s) is/are rejected.							
	Claim(s) is/are objected to.							
	(s) <u>1-80</u> are subject to restriction and/or	election requirem	ent.					
Application Pag		ar						
9)∐ The sp	ecification is objected to by the Examine	onted or h\□ object	ed to by the Exa	miner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
		_ is: a) ☐ approve	ed b)⊡ disappro	oved by the Exam	iner.			
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.								
, ,	ith or declaration is objected to by the Ex							
•	35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	Certified copies of the priority documen	ts have been rece	eived.					
2.□	The state of the s							
3.	3 Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of Re	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Notice of Informa	ry (PTO-413) Paper I Patent Application (	No(s) PTO-152)			

Art Unit: 2824

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121: **Group I.** Claims 1-23, 25-30, 32-41, 43-58, 60-80, drawn to a floating gate
  - transistor, classified in class 365, subclass 185+.
  - **Group II**. Claims 24, 31 and 59, drawn to the method of a flash memory array, classified in class 438, subclass 268.
  - **Group III**. Claim 42, drawn to the method of a flash memory array, classified in class 257, and subclass 315.
- 2. The inventions are distinct, each from the other because of the following reasons:

  Inventions Group I and Group II are related as the process of making and the product made. The inventions are distinct if either or both of the following can be shown:

  (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process [MPEP §806.05 (f)]. For example, it is possible to form the source/drain regions before the formation of the flash memory array structure. Because these inventions are distinct for the reason given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 2824

3. This application contains claims directed to the following patentably distinct species of the claimed invention:

## Group I:

Species 1: Claims 1-8, 10-16, 18-23, 25-30, 32-41, 43-52, 54-58, 60-69, 71-76 and 78-80: A floating gate transistor.

Species 2: Claims 9 and 17: A flash memory array.

Species 3: Claim 53: A method for forming a floating gate transistor cell.

Species 4: Claims 70 and 77: A method for operating a non-volatile memory cell.

If Applicant elects the Inventions of Group I (a floating gate transistor), Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

Art Unit: 2824

できている。

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 4. A telephone call was made to Edward J. Brooks, III on 19 February 2003 to discuss the restriction issue of this application, but was unable to reach.
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventor ship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventor ship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Son Dinh whose telephone number is 703.308.4120.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Richard Elms, can be reached on 703.308.2816. The official fax number

Art Unit: 2824

Page 5

for the organization where this application or proceeding is assigned are 703.746.4261 for regular communications and 703.305.3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.0956.

**PML** 

19 February 2003

Son T. Dinh
Primary Examiner